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CLAIM REVISIONS

I. (AMENDEL) A signal router,	comprising:
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a signal transducer_conditioning circuit configured to write J-K identical images of a first set of data from N inputs to J-K random access memories during a first time interval;

<u>M-K</u> respective bit selectors each configured to read respective portions of a respective one of said J-K identical images;

each of-said K respective bit selectors being further-configured coupled to construct a respective one of K M output data streams during a second time interval

wherein each of the random access memories comprises exactly two parts
configured so that during the second time interval a read occurs from a first one of the
parts, while a write occurs to a second one of the parts.

2. (canceled) -

- 3. (amended) A signal router, as in claim 1, wherein said signal

 transducerconditioning circuit includes a buss to which said first set of data is
 applied and addressing controllers configured to write data from said buss to said
 random access memorics, whereby said J K identical images are written.
- 4. (AMENDED) A signal router, comprising:
- a controller programmed to store identical images of data from said N
- 3 inputs in K memories;

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CLAIM REVISIONS

write occurs to a second one of the parts.

4	said controller being further programmed to read respective bits of said
5	data from each of said K memories to produce K-M respective output data streams,
;	whereby N inputs are mapped to <u>K-M</u> outputs,
,	wherein each of the K memorics comprises exactly two parts configured
	so that during the second time interval a read occurs from a first one of the parts, while a

- 5. A router as in claim 4, further comprising a data buss connected to receive said N
- 6. A router as in claim 5, wherein a bit rate of each of said K outputs is less than a bit rate of said buss.

inputs and distribute them to said K memories.

- 7. (AMENDED) A method of routing data from N inputs to M outputs, comprising the steps of:
- applying data from said N inputs to a data buss by means of at least one of time and space multiplexing;
 - imaging said data on M-K random access memories from said buss;

 reading respective sets of bits from said random access memories to form respective ones of said signals ultimately demultiplexed to form said M outputs.
- wherein each of the random access memories comprises exactly two parts

 configured so that during the second time interval a read occurs from a first one of the

 parts, while a write occurs to a second one of the parts.

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- 8. (new) The router of claim 1, wherein the parts are configured so that upon completion of the
- 2 second interval, the first and second parts change roles, so that subsequently the first part is used
- for the write and the second part is used for the read.
- 9. (new) The router of claim 4, wherein the parts are configured so that upon completion of the
- second interval, the first and second parts change roles, so that subsequently the first part is used
- 3 for the write and the second part is used for the read.
- 10. (new) The method of claim 7, wherein the parts are configured so that upon completion of
- 2 the second interval, the first and second parts change roles, so that subsequently the first part is
- 3 used for the write and the second part is used for the read.
- 1 11. (new) Λ signal router, comprising:
- N inputs for receiving synchronous streams of serial broadcast data;
- a conditioning circuit configured to write K identical images of a first set of data from the N
- inputs to K during a first time interval;
- K respective bit selectors each configured to read respective portions of a respective one of
- said K identical images; and
- each of said K respective bit selectors being coupled to construct M output data streams
- 8 during a second time interval.